

RETI Phase 2 Conceptual Planning Workgroup

Agenda

Thursday, December 18, 2008, 10:00 AM – 4:00 PM
California Energy Commission, 4 North Conference Room
1516 Ninth Street, Sacramento, CA 95814

1. Joint meeting w/ CREZ Refinement Work Group; review plans for the day (10 min)
2. Review Phase 2 Guidance Document finalized at Dec. 17 SSC meeting, and Notes of Dec. 3 Phase 2 Meeting.
3. Schedule and approach for producing statewide conceptual plan
 - N. CA CREZ
 - S-N transfer capacity: study plan
 - S. CA CREZ
4. Dec. 10 meeting results--Southern California resource additions. (Mo Beshir)
5. Updated SCE map of injection points, gateways and corridors. (Shashi Pandey)
6. SDG&E's powerflow results-to-date. (Jan Strack)
 - Extent to which Phase 1B CREZs can be accommodated by existing grid (7500 MW - 9000 MW range).
 - Possible backbone upgrades of existing grid necessary to increase development of Phase 1B CREZs beyond 7500 MW - 9000 MW range.
7. Set 2009 meeting schedule.
8. Joint meeting with CREZ Refinement Work Group to review accomplishments and action items. (3:30-4:00 PM)

Addendum: SDG&E Power Flow Studies

Assumptions used in SDG&E's analysis:

- CREZ development "success rate" (40% except for out-of-state (Table ES-3), Tehachapi wind and Imperial Valley North-A geothermal which are 100%)
- System condition studied (2018 heavy summer case -- daytime peak hour)
- Technology-specific coincidence factors (20% for wind, 80% for solar, 100% for geothermal and biomass)
- Decremental dispatch assumptions (California and desert Southwest)

Future powerflow studies SDG&E intends to conduct:

- Same CREZ development "success rate" as above
- System condition studied (light spring case -- nighttime low load hour; investigate extent of south-to-north constraints in California)
- Technology-specific coincidence factors (100% for wind, 0% for solar, 100% for geothermal and biomass)
- Variations in decremental dispatch assumptions? (e.g., decrement in merit order based on highest variable operating costs for WECC fossil-fired generation)
- CA AB32/WECC high carbon-tax scenario?

Input from other parties needed:

- Review and update powerflow database for planned transmission upgrades (e.g., IID system expansion, C3ETP, West of Devers upgrades, LADWP system expansion north of Los Angeles)
- Revised maps showing preliminary connection points between each CREZs' collector system and the existing transmission grid